

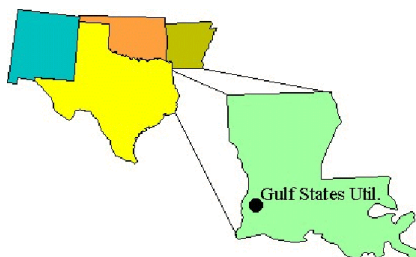
GULF STATE UTILITIES- NORTH RYAN STREET SUPERFUND SITE

Lake Charles, Louisiana

**EPA REGION 6
CONGRESSIONAL DISTRICT 7**

**Contact:
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**EPA ID# LAD985169317
Site ID: 0603977**



Update: May 2013

Background

The Site is located on the Calcasieu River, in Lake Charles, Louisiana. The Site was originally a manufactured gas plant on the south bank of the Calcasieu River. The annual production of gas during the years of operation at the Lake Charles gas plant ranged from approximately 50 to 85 million cubic feet. Manufactured gas production was phased out when natural gas service became available to the City of Lake Charles in 1932 (EPA 2004b). The site is an active industrial facility currently operated as the Lake Charles Division Service Center of Entergy Gulf States, Inc.

The coal tar by-products generated during gas plant activities were reportedly discharged into marshlands west of the gas plant. Additionally, a wetland area of approximately six acres was used as a landfill for the disposal of electric equipment, poles, appliances, and other waste. Electric transformers, capacitors, and drums containing used transformer oil were reported to have been disposed of in this landfill.

Discovery of Site conditions, including potential groundwater contamination, occurred on July 1988, when utility workers digging a trench discovered an oily material leaking out of the side of the trench closest to the Site. Site investigations by the Louisiana Department of Environmental Quality (LDEQ) and the EPA continued for several years. The site was proposed for the NPL in February 1995.

In 1999, EPA and the responsible party signed an agreement to perform a non-time critical removal action. The responsible party, with oversight from EPA, performed a removal action from 2000-2003 to address on-site contaminated soil areas, known as the exposed tar and storm sewer areas, and contaminated Calcasieu River sediment. The removal actions included dredging, dewatering and disposal of sediment from the Calcasieu River, and excavation of storm sewer piping, bedding soil, and sediments from the west drainage ditch. Removal activities also included and disposal of soils and sediments where tar was exposed on the ground surface. Excavation was performed in the exposed tar area and an engineered cap was placed over the excavated area. Along the shoreline, a cap was placed over the river sediment to provide stability and improve the aesthetic appeal of the shoreline. In addition, a sediment cover was placed in the Calcasieu River.

As the removal action was ongoing, EPA issued the ground water Record of Decision (ROD) in September 2000, which selected monitored natural attenuation of the ground water (Operable Unit 1) as the remedy for the ground water. An Administrative Order was issued to Entergy in September 2005 that includes the implementation of the Record of Decision (ROD) for the ground water and long-term monitoring of the site. In 2004, EPA issued a ROD addressing the soil contamination (Operable Unit 2) at the Site. Since the soil contamination was addressed with during the removal action, the ROD is for no-further action at the site based on the low-level risks at the site remaining after the removal actions.

Current Status

The EPA issued the first Five Year Review Report (FYR) for Gulf State Utilities-North Ryan in September 2010. The Five Year Review Report determined that the remedy is protective in the short term.

The seventh year of quarterly sampling of ground water was completed in 2012 and the annual groundwater report is expected to be submitted to EPA by April 2013. The quarterly ground water sampling for 2013 is currently underway.

Benefits

Implementation of the remedy has reduced the risks to humans that have exposure at the site and will protect the Calcasieu River, a recreational fishery.

National Priorities Listing (NPL) History

Proposed Date: 2/13/1995
Final Date: Not Finalized
Deletion Proposal Date: n/a
Final Deletion Date: n/a

Location: 303 North Ryan Street, Lake Charles, Louisiana

Population: 56,120 in Lake Charles, Louisiana.

Setting: The site is currently operated as the Lake Charles Division Service Center of Entergy Corporation (Entergy). Situated on the south bank of the Calcasieu River, the site consists of east and west service yards separated by North Ryan Street. A six acre wetlands area was included as part of the site due to landfill activities associated with historical site operations.

Principal Pollutants: Polycyclic Aromatic Hydrocarbons (PAHs) associated with coal gasification process and Polychlorinated Biphenyls (PCBs) associated with landfill activities.

Health Considerations:

The human health risk assessment concluded that there were elevated health risks associated with PAHs on the site. PAHs were also present in sediments in the Calcasieu River, which posed potential risks to the aquatic receptors.

Record of Decision (ROD)

The Ground Water ROD (Operable Unit 1) was issued on 9/27/2000.
The Source Control ROD (Operable Unit 2) was issue on 9/03/2004.

Site Contacts

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